

EX3 a)  $\delta(x) = 1$ JX-633 N+33 > 0 D(8): x(1+x2)>0 dac 0>0 Car 1+ 2 >0 D(B) = JO, + 50[ b)  $g(x) = ln\left(\frac{x^2-3x+2}{x+1}\right)$ D(8): x+1+0 el 22-3x+2 >0  $A = \frac{(n-1)(n-2)}{n+1} > 0$ (n-1) (n-2) + + + + + + + A = (n-1) (n-2) - | + 0-0+ D(g) = ]-1, 1[ U]21+00[

EX4 a) en(x+1) + en(x+2) = en(x+3) x+1>0 x+2>0 x+3>0 en [(x+1) (x+2)] = en (x+3) (x+1)(x+2) = x+3 $x^{2} + 3x + 2 = x + 3$   $x^{2} + 2x - 1 = 0$  $\times_{1,2} = -1 \pm \sqrt{2}$ he vérilie par x1+1>0 X\_-\_ 1\_ \\ \Z X2 -- 1+ JZ K2+1=52>0 OK OK ×2 +270 OK x2 + 3 > 0 5={-1+52}

 $3 \text{ sm}^2(x) + 2 \text{ co}^3(x) = \frac{11}{4} \text{ at } \text{c}^{-1}(x)$  $G^2(x) = 1 - Air^2(x)$ 3 sin (x) + 2 (2 - sin (x)) = 11  $\frac{\sqrt{2}(x)}{4} = \frac{11}{4} = \frac{3}{4}$ Min (K1 = ± 53  $Nim(x) = \frac{\sqrt{3}}{2}$  $\frac{1}{3} = \frac{\pi}{3}$  $x_2 = \sqrt{1 - 1} = 2\sqrt{3}$ 80 (x) = - 13 x₂ = -<del>1</del>/3 Xu = - 21 Ex5 a)  $\sin\left(-\frac{11}{6}\right) = -\sin\left(\frac{11}{6}\right) = -\sin\left(\frac{11}{6}\right) = -\sin\left(\frac{11}{6}\right)$  $= - 8in \left(-\frac{\pi}{6}\right) = \frac{1}{2}$ 4 (co (-911) = (co (911) = 6) (11 + 211) = 12 c) anc mm (-1) -- I d) ac cos  $(-\frac{1}{2}) = \pi - \frac{\pi}{2} = 2\pi$ (co (arctan (1)) - (co (T) - 13 8) arc sin ( sin (41) = arc sin ( sin (T-4) = T-4 (at T-4 (-T ] 31 arccos (co(41) = arccos (co (211-41) = 2TT-4 Car 2TT-4 C [0, T] i) andan (tan (511) = anctan (tan (I) 9) Co (ac sin(-12)) = = = 52